

Abstract

Processes and systems are provided that include introducing ammonia liberated from organic waste to a coal burner in a coal burning power plant, preferably for NO_x removal at the power plant. The ammonia is preferably either ammonia liberated upon drying a mixture of organic waste and coal combustion by-products or ammonia liberated when organic waste is mixed with coal combustion by-products and one or more alkaline additives. Also provided are processes and systems of fueling a coal burner of a power plant with coal and either a dried mixture of organic waste and coal combustion by-products, or a mixture of organic waste, coal combustion by-products and one or more alkaline additives. The present invention is further directed to mixtures of either organic waste and coal combustion by-products, or mixtures of organic waste, coal combustion by-products and alkaline additives made by the processes of the present invention.